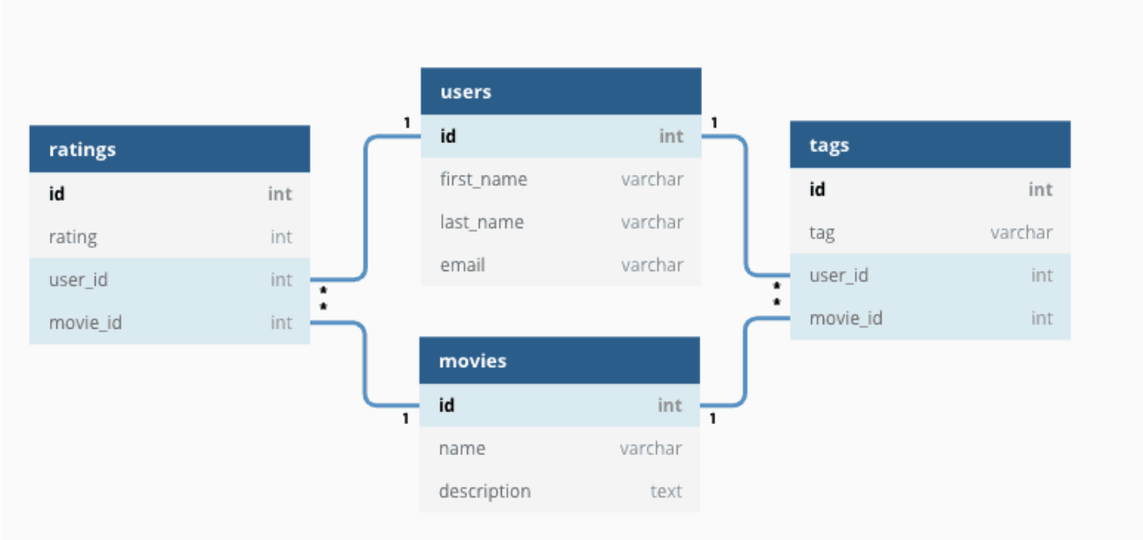
TYPES OF DATABASE

1. **Relational Database**- A relational database is a type of database that stores and provides access to data points that are related to one another. The columns of the table hold attributes of the data, and each record usually has a value for each attribute, making it easy to establish the relationships among data
points.



2. **Analytical**- Analytical data is a collection of data that is used to support decision making and/or research. It is historical data that is typically stored in a read-only database that is optimized for data analysis.

What is an Analytical Database?

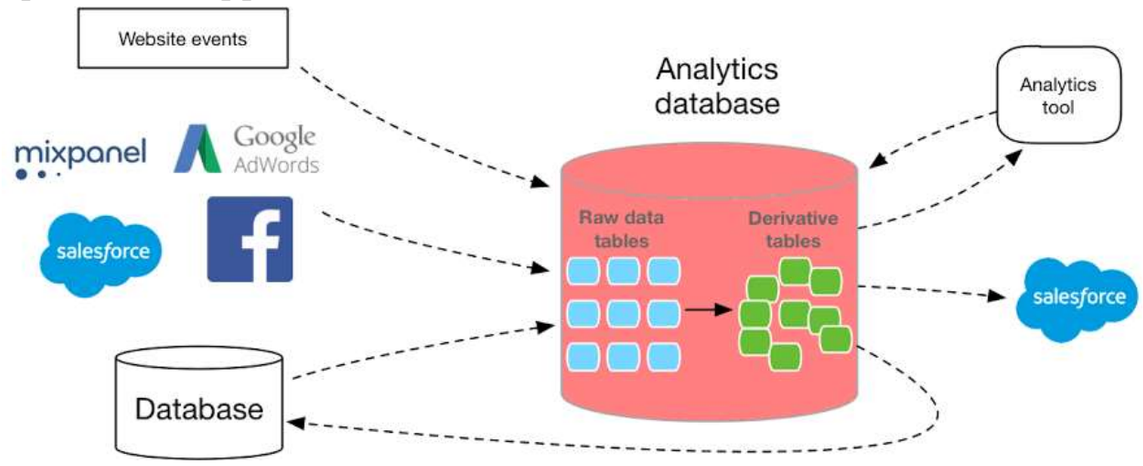
An analytical database is a read-only storage that collects historical data related to operations' KPIs and metrics such as sales, performance, and inventory.

For organizations, it creates an easily accessible system for any applicable employee or stakeholder to find relevant data, perform queries, and create reports based on the existing data.

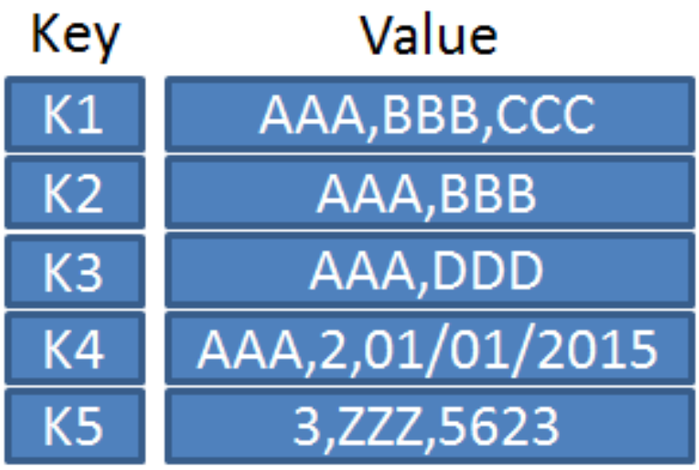
While it doesn't work the same way as a real-time database, it is constantly updated as new data is collected from an organizations' pertinent data streams.

Analytical databases are built for business intelligence and big data analytics, and usually function as part of larger data warehouses. They are popular because they offer faster query times, simpler maintenance, and easier scalability due to their less volatile nature.

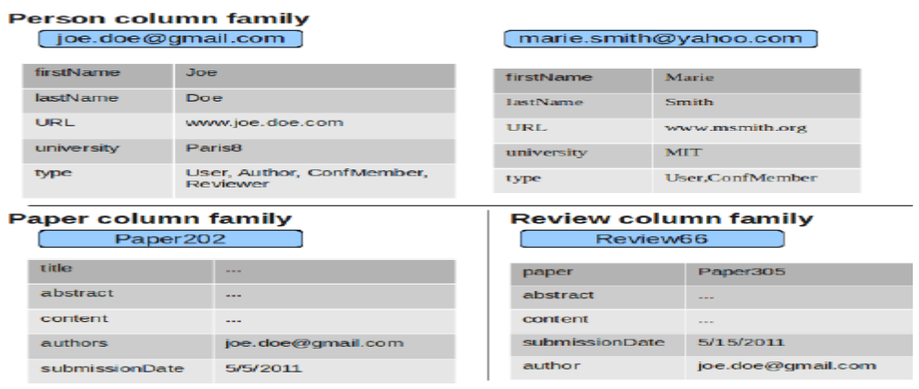
Analytical databases are different from transactional (or OTL) databases which handle transaction processing and other operational applications.



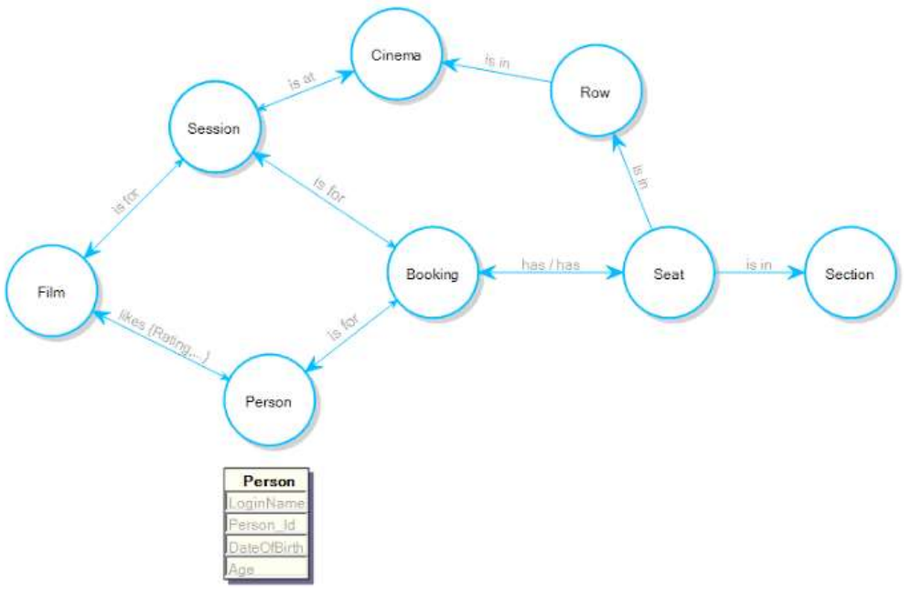
3. **KEY-VALUE DATABSE** -A key–value database, or key–value store, is a data storage paradigm designed for storing, retrieving, and managing associative arrays, and a data structure more commonly known today as a dictionary or hash table.



4.**COLUMN FAMILY DATABASE**- A column family is a database object that contains columns of related data. It is a tuple that consists of a key–value pair, where the key is mapped to a value that is a set of columns. In analogy with relational databases, a column family is as a "table", each key-value pair being a "row".



5. **GRAPH DATABSE**- In computing, a graph database is a database that uses graph structures for semantic queries with nodes, edges, and properties to represent and store data. A key concept of the system is the graph.



6. **DOCUMENTED DATABASE**- A document-oriented database, or document store, is a computer program and data storage system designed for storing, retrieving and managing document-oriented information, also known as semi-structured data.